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[redacted]
Copy 2 of 13

13 September 1967

MEMORANDUM FOR THE RECORD

SUBJECT: Revised U-2R Performance Data

REFERENCE: Performance Evaluation of the U-2R Model
Airplane [redacted]

1. Attached is the latest standard day performance estimate for the U-2R airplane as calculated by ASD/R&D/OSA. It represents ASD/R&D/OSA's independent estimate of the performance presented by Lockheed in their Model Spec SP-1125 revised 1 July 1967. This data updates the U-2R performance estimates presented in Reference and should be used in lieu of those data.

2. The airplane changes, affecting performance, since the last estimate are:

A. Increased zero fuel weight. New value of 18,434 lbs.

B. Up-dated engine data from Pratt & Whitney Aircraft Company.

C. Revised drag estimates due to wind tunnel tests.

3. The next revision to the U-2R performance data will be issued when the flight-test results become available to ASD/R&D/OSA.

[redacted]
Aircraft Systems Division
Deputy for
Research and Development
Special Activities

Attachments - 12

25X

25X1 ASD/R&D/OSA/[]:bjg (13 Sept 67)

Distribution:

- #1 - D/R&D/OSA (w/atts)
- #2 & #3 - ASD/R&D/OSA (w/atts)
- #4 - DD/SA (w/atts)
- #5 & 6 - D/SA (w/atts)
- #7 - D/O/OSA (w/atts)
- #8 & #9 - IDEA/O/OSA (w/atts)
- #10 - D/M/OSA (w/atts)
- #11 - COMPT/OSA (w/atts)
- 25X1 #12 - [](w/atts)
- #13 - SAS/O/OSA (w/atts)
- #14 - ASD Chrono (w/atts)
- #15 - RB/OSA (w/o atts)

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Attachment to

TOP SECRET
 .U-2R
 MAXIMUM ALTITUDE MISSIONS
 J-75-P13B ENGINE
 STD DAY

25X

CONDITION	TIME (HRS)	TIME FROM T.O. (HRS)	FUEL USED (LBS)	FUEL USED FROM T.O. (LBS)	DIST (N.M.)	DIST FROM T.O. (N.M.)	ALTITUDE (FT)	INITIAL WEIGHT (LBS)	END WEIGHT (LBS)
Normal Loading	-	-	-	-	-	-	S.L.	-	31,334
Warm Up & T.O.	-	-	250	250	-	-	S.L.	31,334	31,084
Climb to Max. Alt.	0.95	0.95	2,684	2,934	360	360	67,800	31,084	28,400
Cruise - Climb	8.24	9.19	9,266	12,200	3,404	3,764		28,400	19,134
Descent & Reserve	-	-	700	12,900	100	3,864	S.L.	19,134	18,434
Overload Loading	-	-	-	-	-	-	S.L.	-	37,784
Warm Up & T.O.	-	-	250	250	-	-	S.L.	37,784	37,534
Climb to Max. Alt.	1.16	1.16	3,390	3,640	440	440	64,000	37,534	34,130
Cruise - Climb	12.09	13.25	15,010	18,650	4,997			34,130	19,134
Descent & Reserve	-	-	700	19,350	100		S.L.	19,134	18,434

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NOTES: CRUISE

C.G. AT 25% M.A.C.

TOP SECRET

Att. #2

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TOP SECRET
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 MAXIMUM RANGE MISSIONS
 J-75-P13B ENGINE
 STD DAY

Attachment to

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CONDITION	TIME (HRS)	TIME FROM T.O. (HRS)	FUEL USED (LBS)	FUEL USED FROM T.O. (LBS)	DIST (N.M.)	DIST FROM T.O. (N.M.)	ALTITUDE (FT)	INITIAL WEIGHT (LBS)	END WEIGHT (LBS)
Normal Loading	-	-	-	-	-	-	S.L.	-	31,334
Warm Up & T.O.	-	-	250	250	-	-	S.L.	31,334	31,084
Climb to Cruise Alt.	.38	.38	1,770	2,020	123	123	60,200	31,084	29,314
Cruise - Climb	9.81	10.19	10,180	12,200	4,118		68,750	29,314	19,134
Descent & Reserve	-	-	700	12,900	100		S.L.	19,134	18,434

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Overload Loading	-	-	-	-	-	-	S.L.	-	37,784
Warm Up & T.O.	-	-	250	250	-	-	S.L.	37,784	37,534
Climb to Cruise Alt.	.39	.39	2,045	2,295	123	123	55,750	37,534	35,489
Cruise - Climb	14.38	14.77	16,355	18,650			68,750	35,489	19,134
Descent & Reserve	-	-	700	19,350	100		S.L.	19,134	18,434

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Alt #4

NOTES: CRUISE

C.G. AT 25% M.A.C.

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